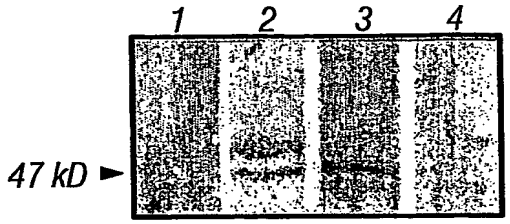

FIG. 1A

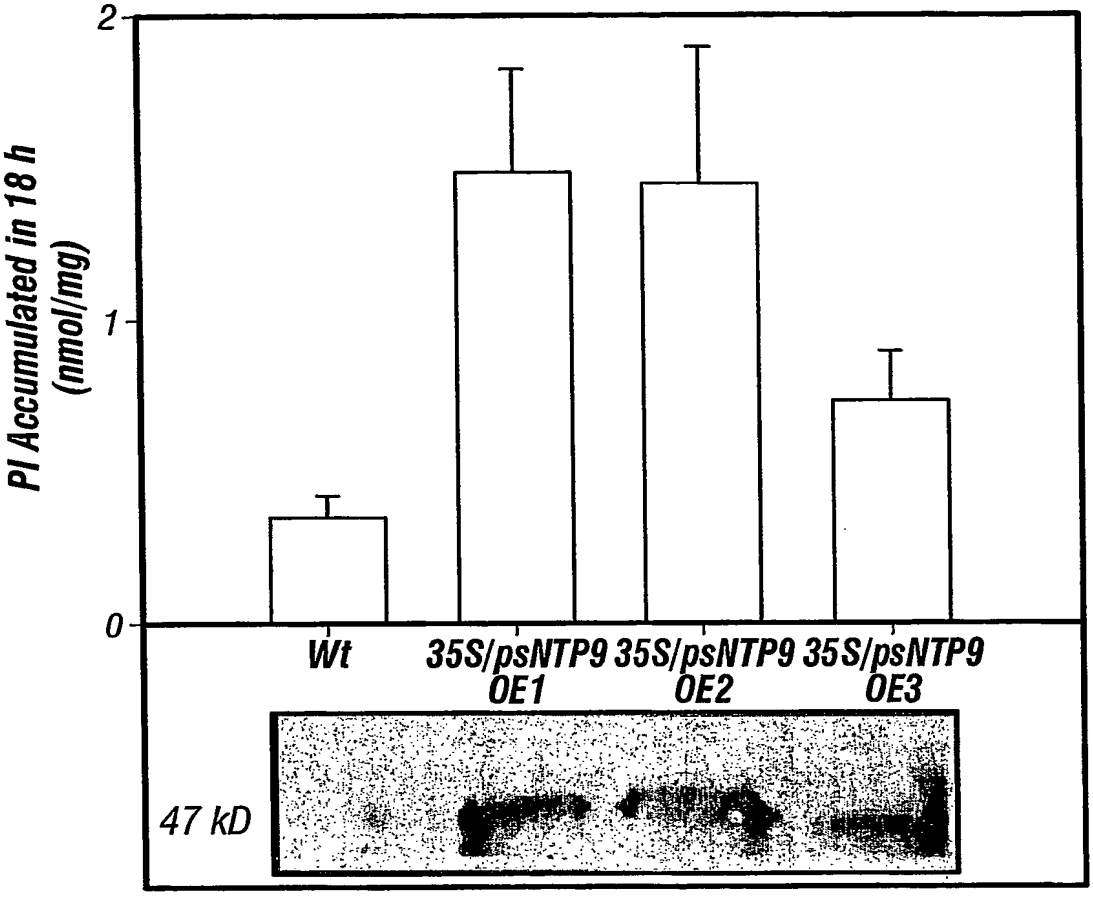

FIG. 1B

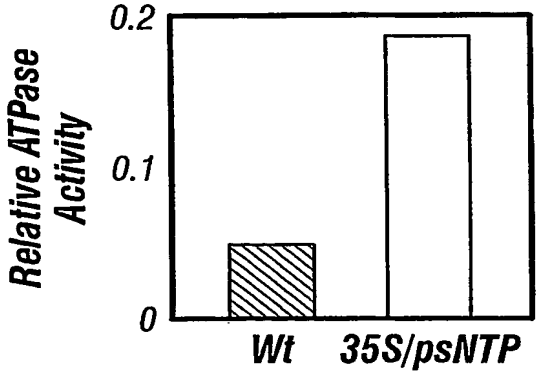

FIG. 1C

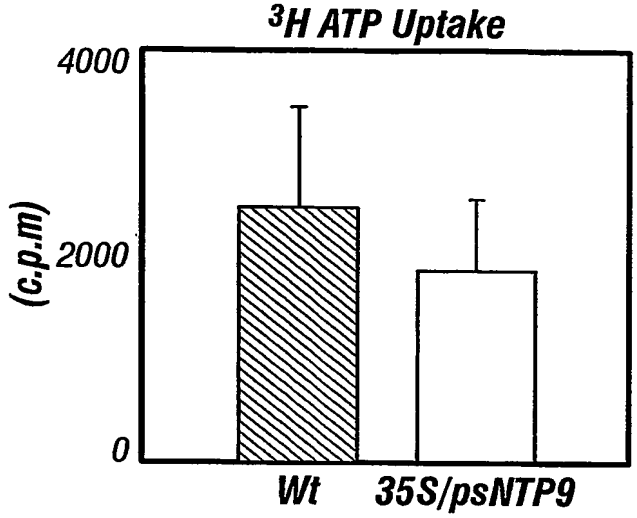

FIG. 2A

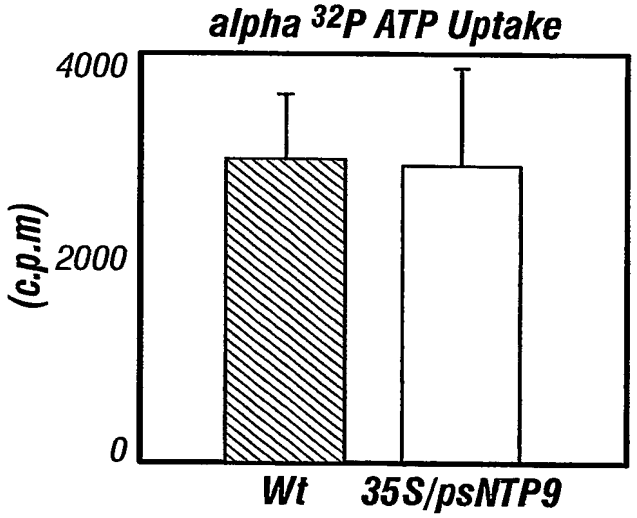

FIG. 2B

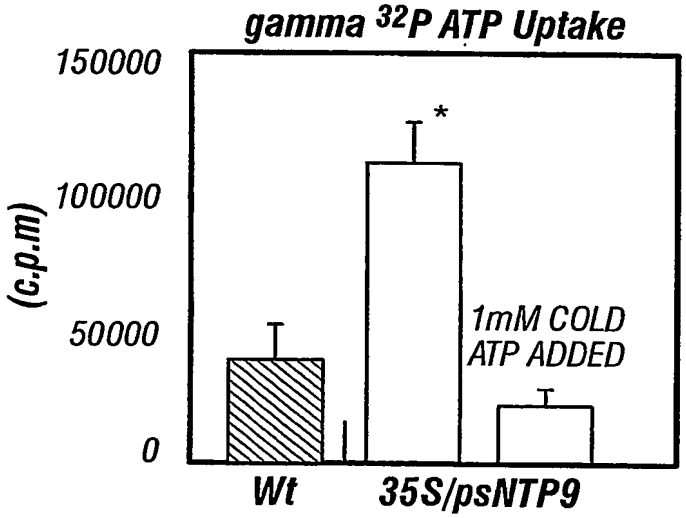

FIG. 2C

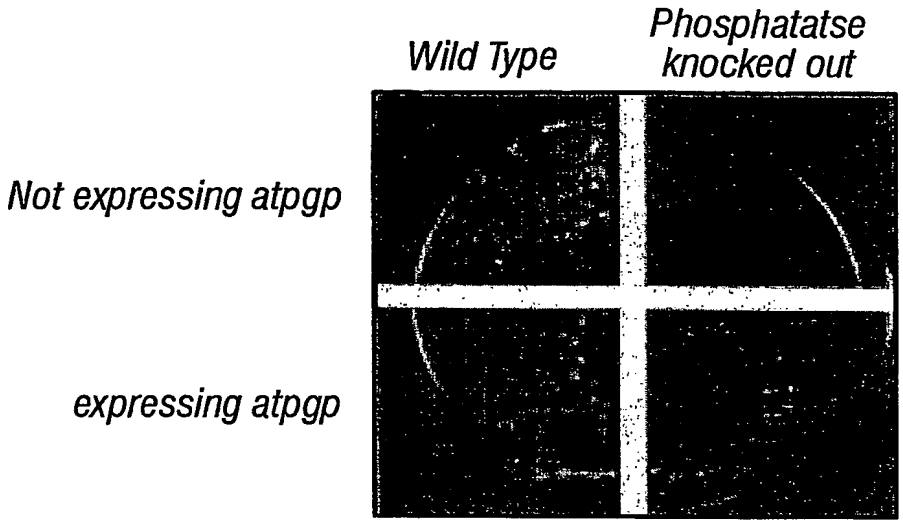

FIG. 3A

FIG. 3B

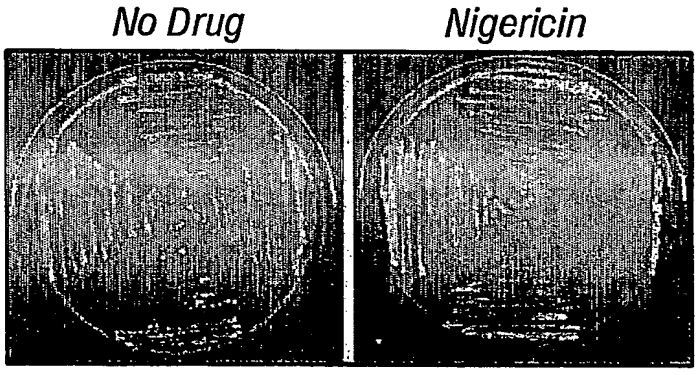

FIG. 3C FIG. 3D

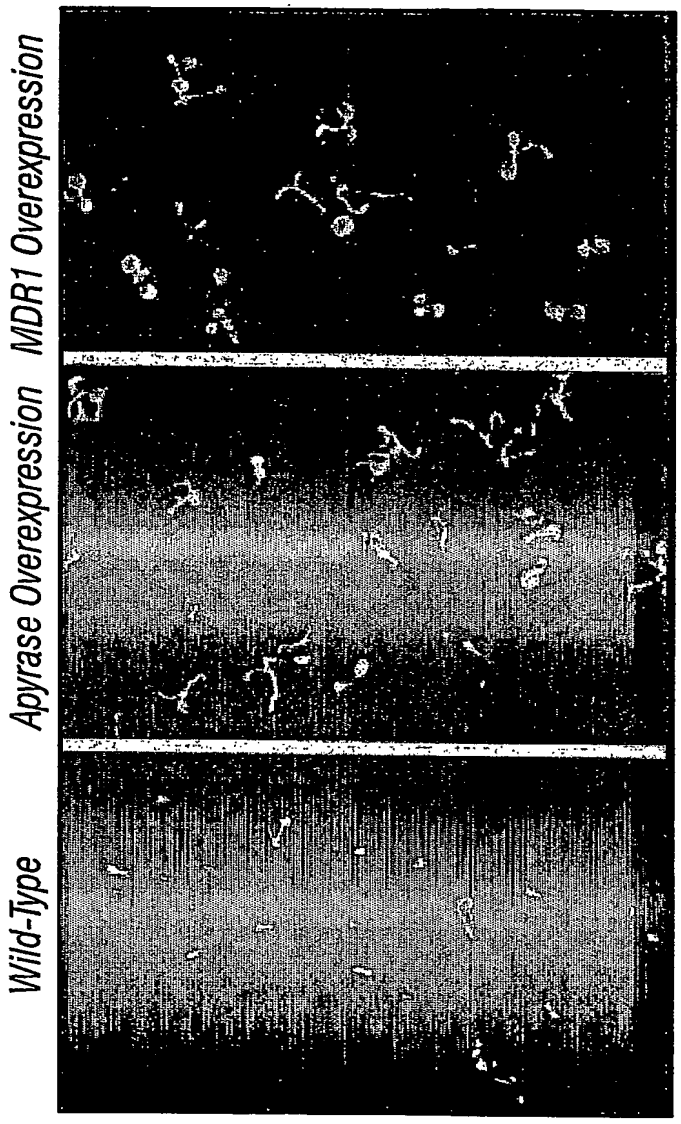

FIG. 4A

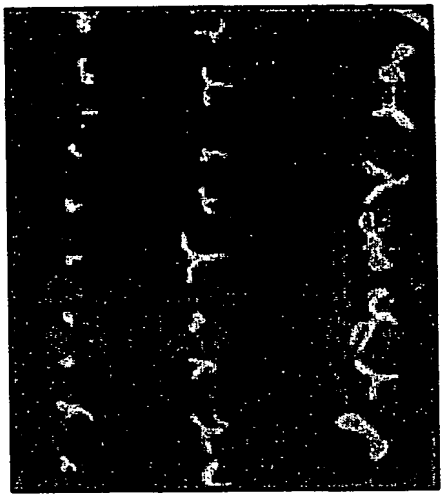

FIG. 4B-2

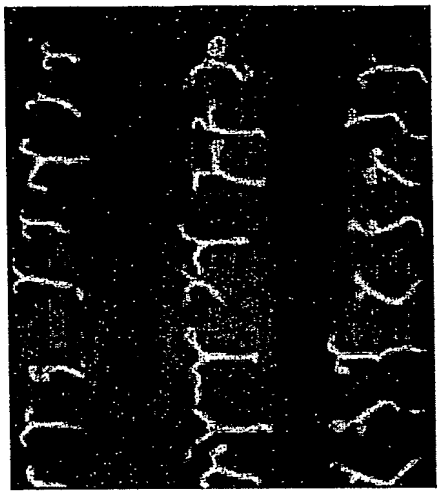

FIG. 4B-3

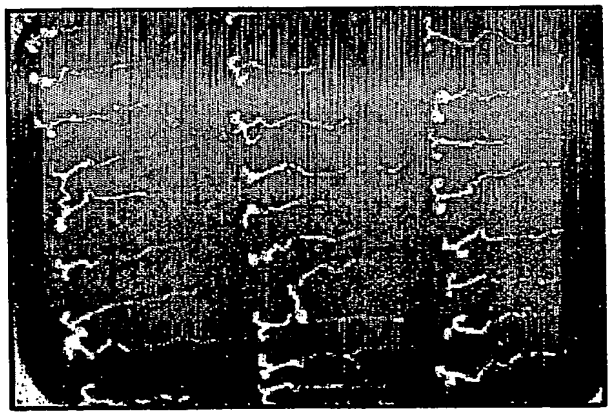

FIG. 4B-1

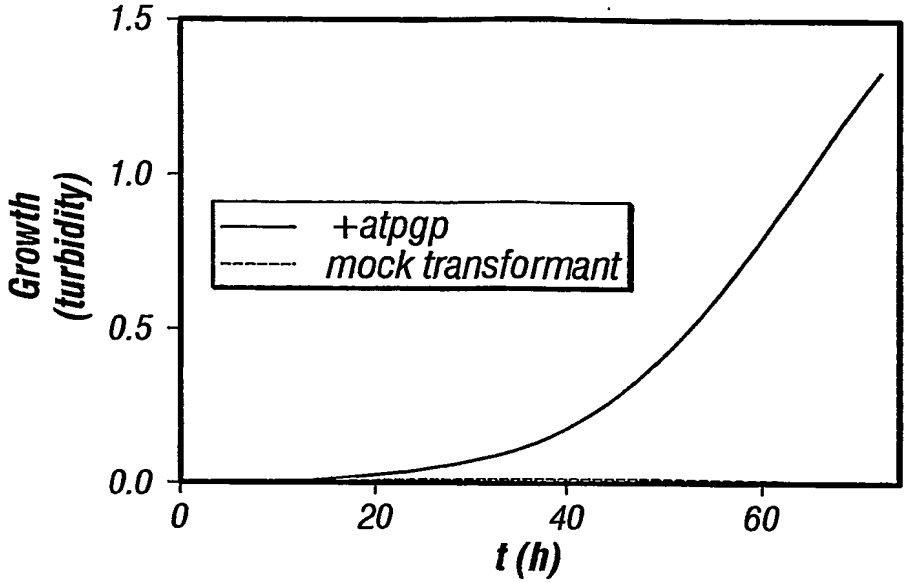

FIG. 5A

FIG. 5B

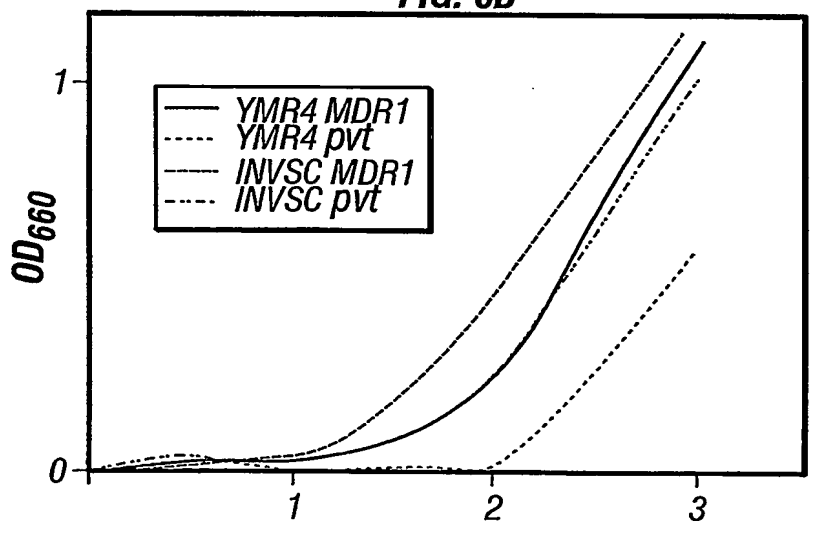

FIG. 5B

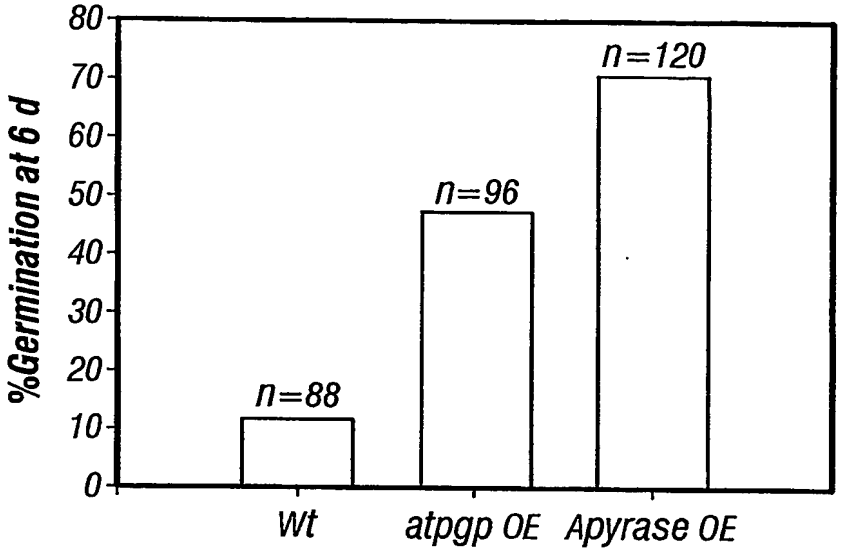
%Germination at 6 d
80
70
60
50
40
30
20
10
0
n=88
n=96
n=120
Wt
atpgp OE
Apyrase OE

FIG. 6

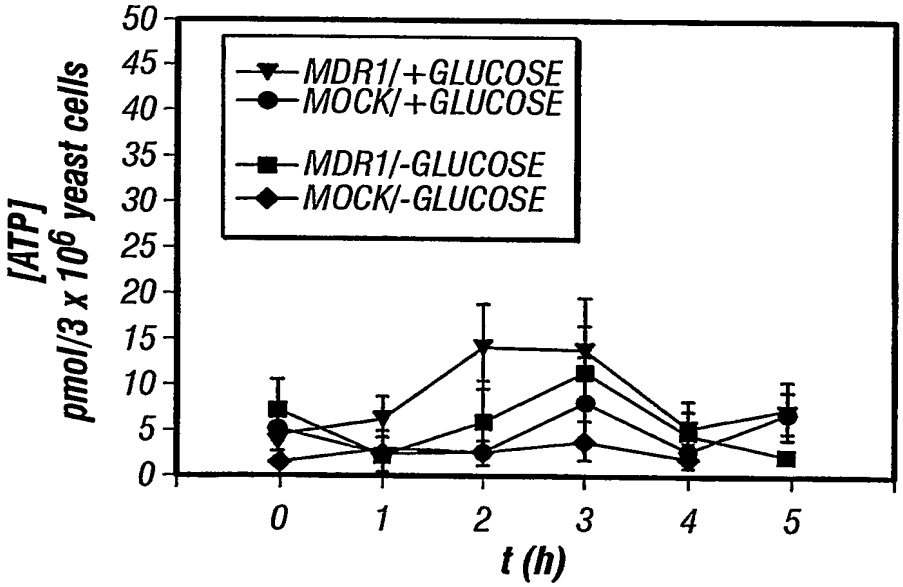
[ATP]
pmol/3 x 10^6 yeast cells
50
45
40
35
30
25
20
15
10
5
0
MDR1/+GLUCOSE
MOCK/+GLUCOSE
MDR1/-GLUCOSE
MOCK/-GLUCOSE
0
1
2
3
4
5
t (h)

FIG. 7

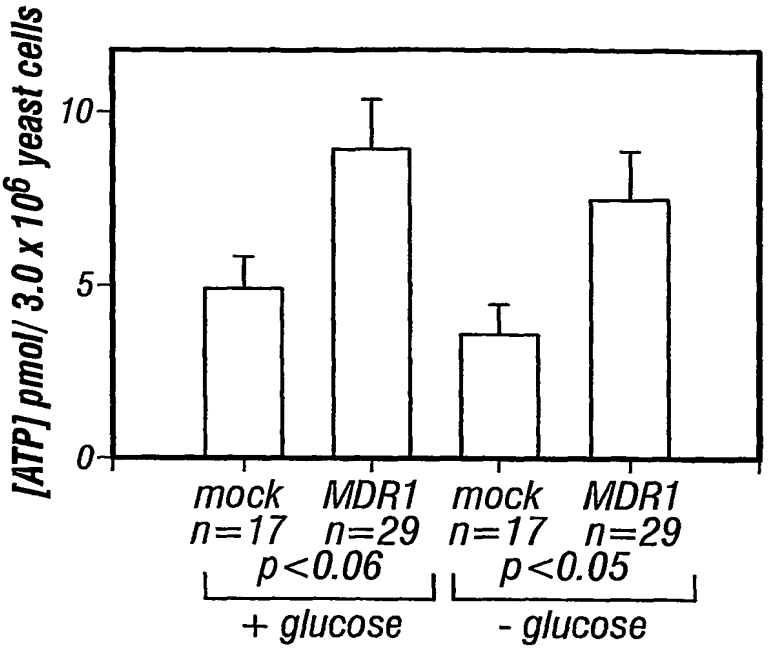
[ATP] pmol/ 3.0 x 10^6 yeast cells
10
5
0
mock
MDR1
mock
MDR1
n=17
n=29
n=17
n=29
p<0.06
p<0.05
+ glucose
- glucose

FIG. 8

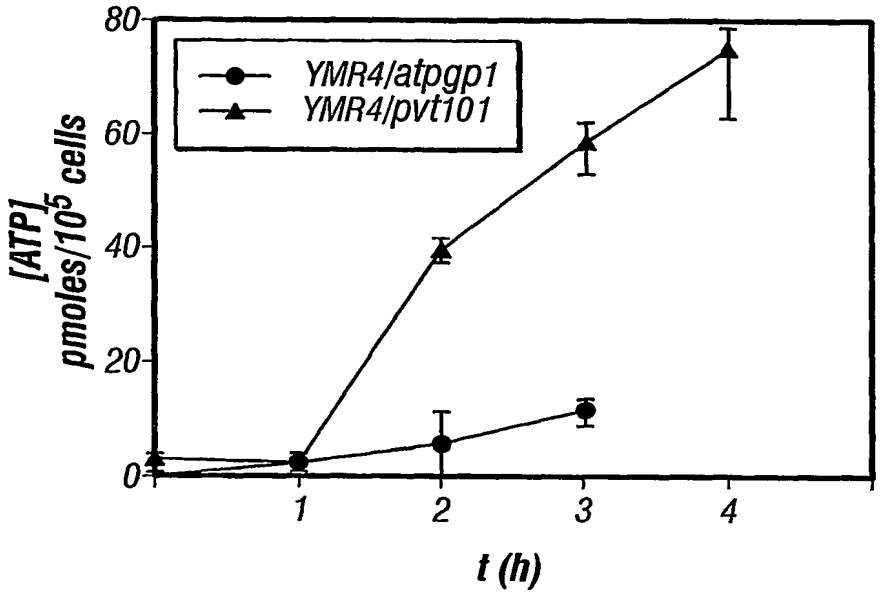
80
60
40
20
0
[ATP] pmoles/10^5 cells
YMR4/atpgp1
YMR4/pvt101
1
2
3
4
t (h)

FIG. 9

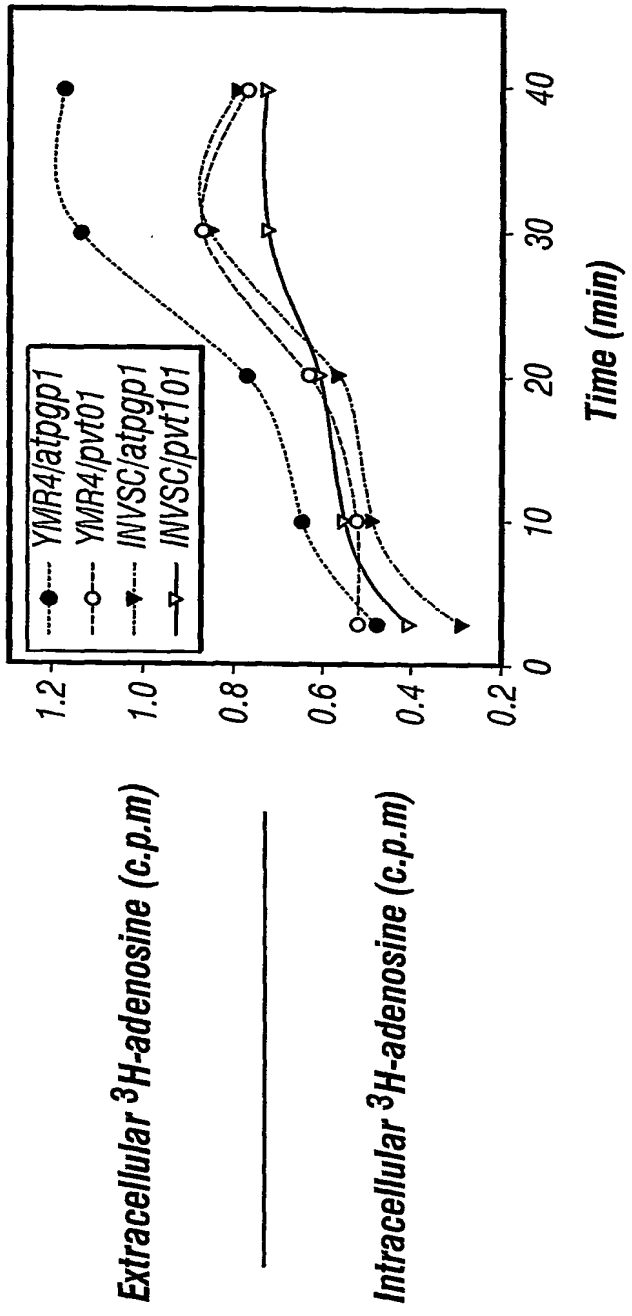
YMR4/atpgp1
YMR4/pvt01
INVSC/atpgp1
INVSC/pvt101
1.2
1.0
0.8
0.6
0.4
0.2
0
10
20
30
40
Time (min)
Extracellular 3H-adenosine (c.p.m)
Intracellular 3H-adenosine (c.p.m)

FIG. 10

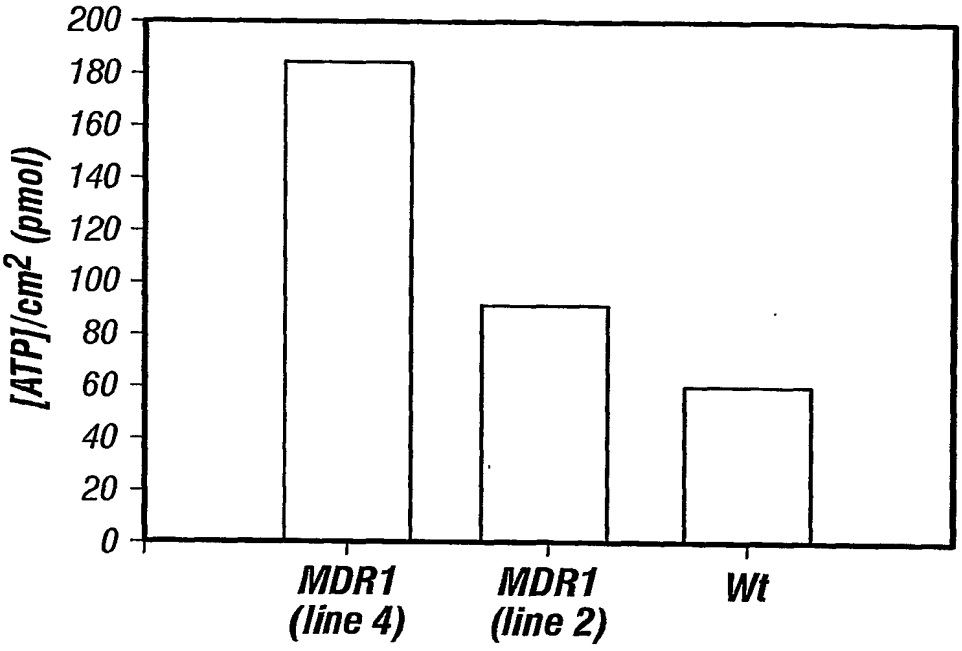
200
180
160
140
120
100
80
60
40
20
0
[ATP]/cm2 (pmol)
MDR1 (line 4)
MDR1 (line 2)
Wt

FIG. 11

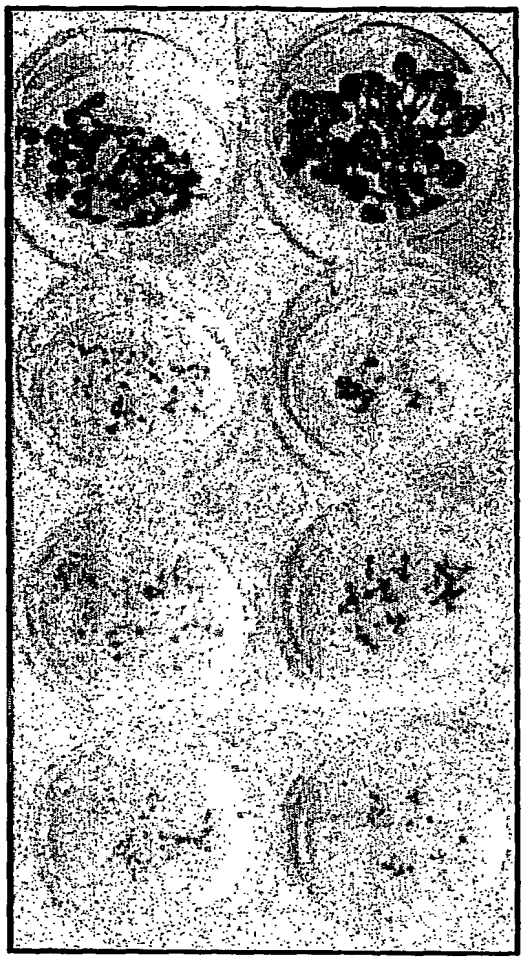

FIG. 12

	Drug selected Cells	Cells cultured only on Media
Cycloheximide		
ym4mdr1	*0.754*	*0.014*
ymr4 pvt	*0.017*	*0.016*
inv scmdr1	*0.683*	*0.013*
inv sc pvt	*0.985*	*0.005*
ATP+cycloheximide		
ym4mdr1	*0.001*	*0.001*
ymr4 pvt	*0.002*	*0.001*
inv scmdr1	*0.001*	*0.002*
inv sc pvt	*0.001*	*0.002*
ATP		
ym4mdr1	*0.016*	*0.585*
ymr4 pvt	*0.001*	*0.697*
inv scmdr1	*0.271*	*1.267*
inv sc pvt	*0.052*	*0.213*
Media alone		
ym4mdr1	*1.477*	*1.478*
ymr4 pvt	*1.437*	*1.484*
inv scmdr1	*1.498*	*1.483*
inv sc pvt	*1.488*	*1.435*

FIG. 13

Media alone	
ymr mdr1	*1.376*
ymr4 pvt	*1.429*

Cycloheximide	
ymr mdr1	*0.937*
ymr4 pvt	*0.001*

PQ_4 alone	
ymr mdr1	*1.351*
ymr4 pvt	*1.341*

PQ_4 and Cycloheximide	
ymr mdr1	*0.541*
ymr4 pvt	*0.001*

Adenosine alone	
ymr mdr1	*1.319*
ymr4 pvt	*1.354*

Adenosine and Cycloheximide	
ymr mdr1	*0.632*
ymr4 pvt	*0.002*

Adenoside and PQ_4 alone	
ymr mdr1	*0.899*
ymr4 pvt	*1.342*

Adenoside and PQ_4 and Cycloheximide	
ymr mdr1	*0.389*
ymr4 pvt	*0.001*

FIG. 14